11 Publication number:

0 298 840 Δ3

12

EUROPEAN PATENT APPLICATION

21 Application number: 88401694.0

(51) Int. Cl.4: **G 11 B 5/70**

22 Date of filing: 30.06.88

39 Priority: 09.07.87 JP 172219/87

43 Date of publication of application: 11.01.89 Bulletin 89/02

84 Designated Contracting States: DE FR GB IT

Date of deferred publication of search report:11.10.89 Bulletin 89/41

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64 Magnetic recording medium and manufacturing method thereof.

(11), a Cr base layer (21) containing nitrogen in an amount less than 25 atm %, preferably 5 to 15 atm %, and a magnetic film (13) of Co alloy such as Co-Ni or Co-Ni-Cr alloy material deposited thereon, shows a clear improvement in medium noise level and S/N ratio over a conventional medium comprising a pure Cr base layer without nitrogen content. In case of about 10 atm % nitrogen content in the base layer, the medium noise level is reduced by half and the S/N ratio is improved by 6 to 9 dB, while the other magnetic characteristics such as coercivity Hc, residual magnetization Br, and squareness ratio Sq are remaining the same.

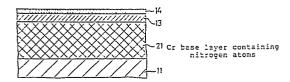


FIG. 2

EUROPEAN SEARCH REPORT

EP 88 40 1694

				EP 88 40 169	
•	DOCUMENTS CONSIL	ERED TO BE RELEVAN	T		
Category	Citation of document with inc of relevant pass	lication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)	
A,P	PATENT ABSTRACTS OF vol. 11, no. 72 (P-5 March 1987; & JP - A (VICTOR) 17-10-1986	JAPAN 54)(2519), 5th - 61 233 428	1,2,9	G 11 B 5/70 G 11 B 5/66	
A	WO-A-8 605 214 (TRI * page 4, line 34 -	MEDIA CORPORATION) page 5, line 7 *	1,2,9		
P,A	DE-A-3 707 522 (MAT * whole document *	SUSHITA)	1,9		
A	EP-A-0 216 610 (IBM * claims 1,2 *)	1,2		
A	PATENT ABSTRACTS OF vol. 9, no. 236 (P-3 September 1985; & JP (TOPPAN INSATSU) 21-	90)(1959), 21st - A - 60 090 336	1		
				TECHNICAL FIELDS SEARCHED (Int. Cl.4)	
				G 11 B 5/00 H 01 F 10/00 G 03 F 1/00	
The present search report has been drawn up for all claims					
Place of search BERLIN		Date of completion of the search 29-06-1989	CHAL	Examiner CHAUMERON B.	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		E : earlier patent de after the filing oner D : document cited L : document cited	T: theory or principle waderlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document		

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